REASON

- **The AAR list program used with TWGSS/PGS provides a tool to evaluate gunnery and force-on-force training exercises. To be able to extract information required to conduct an AAR, the instructor must be able to prepare the AAR and operate the AAR list program.**

TRAINING OBJECTIVE

- **In a classroom environment, given a TDRS computer unit, student handout, and TM 9-6920-711-12&P-1, you will perform the following:**
  - **Operate AAR list controls and indicators.**
  - **Set up an AAR list screen.**
  - **Prepare an AAR.**
  - **Download and store AAR data.**
  - **Download AAR data to EXCEL.**
  - **Perform AAR for tracking training exercise.**

AAR CAPABILITIES

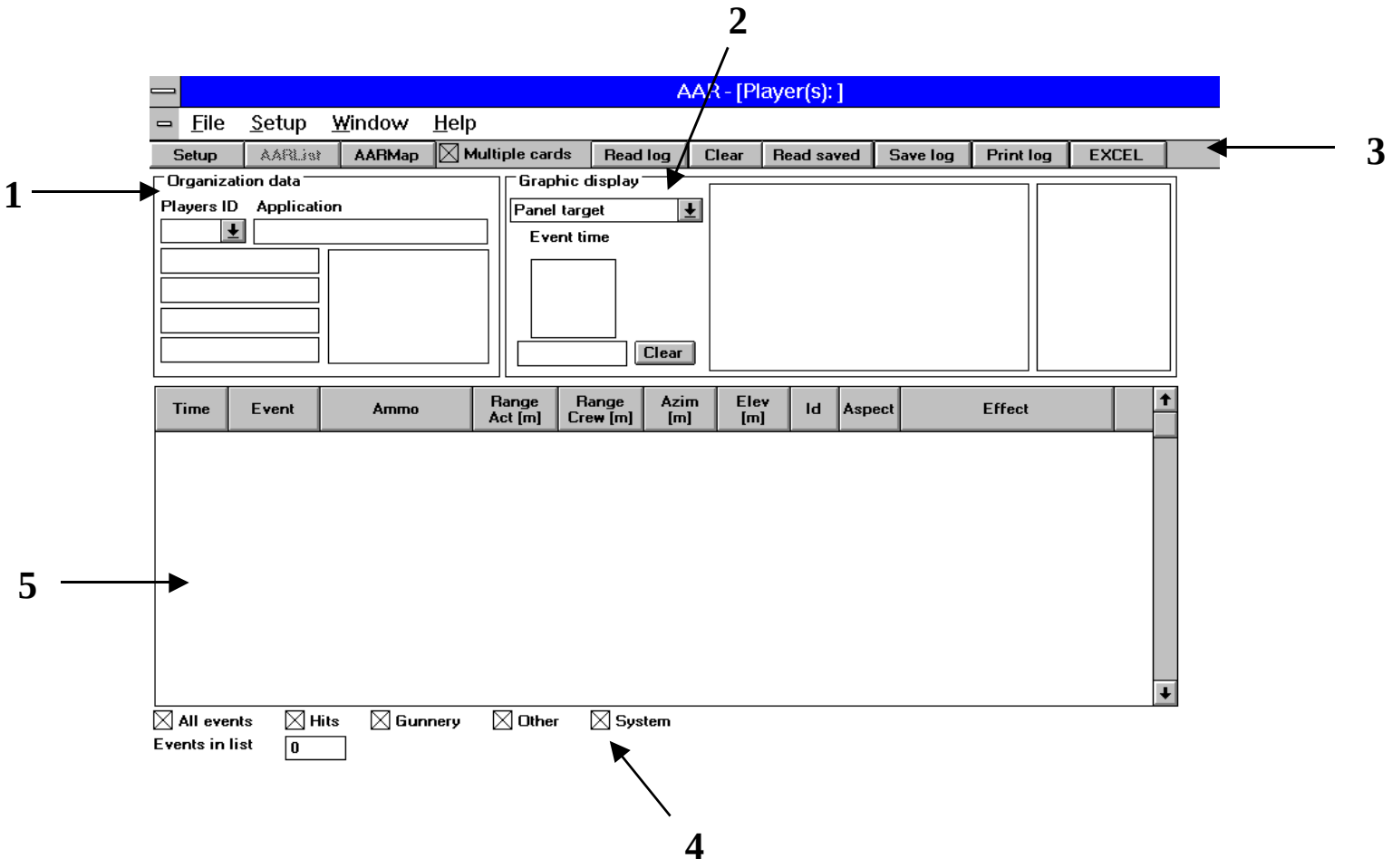
- **AAR List**

  Evaluates and presents detailed information of each event during the training exercise.

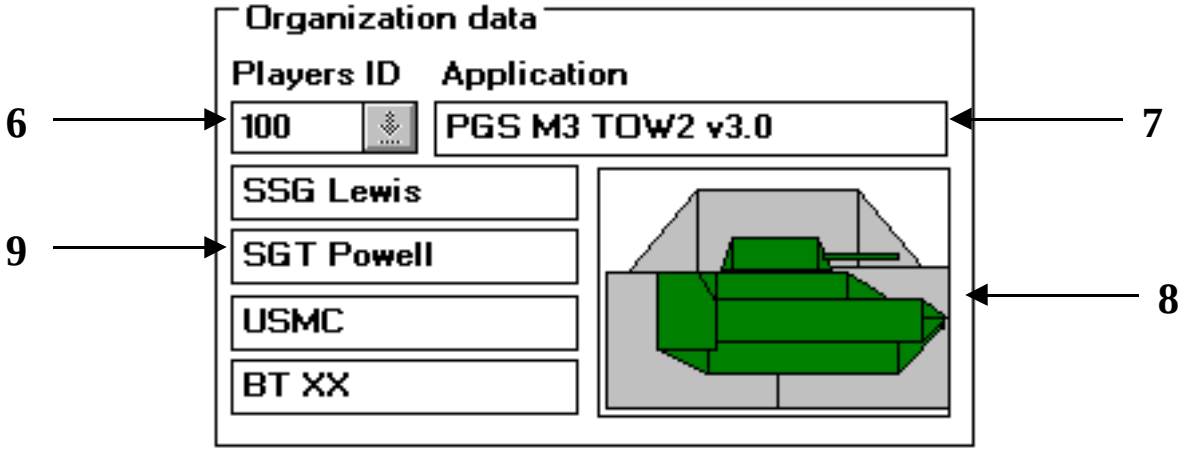
- **AAR Map**

  Includes the maneuver aspect of the training exercise into the AAR.

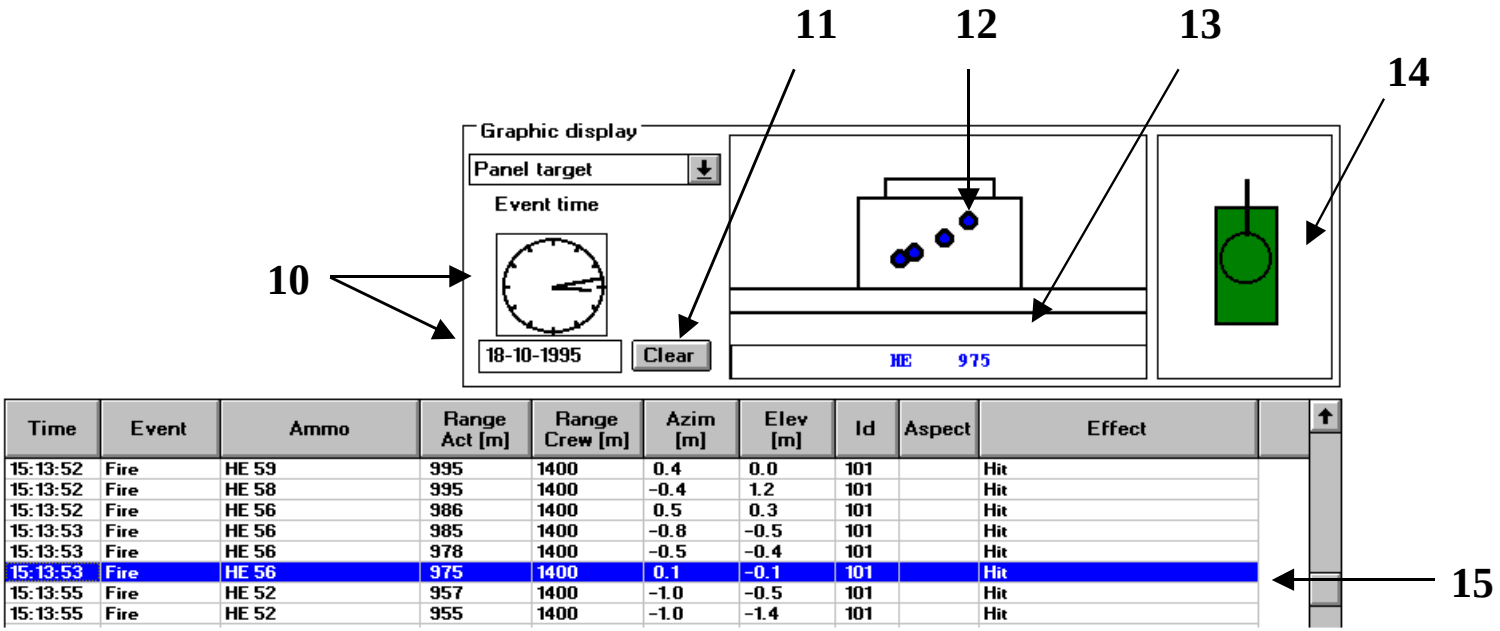
AAR LIST MAIN MENU



ORGANIZATIONAL DATA



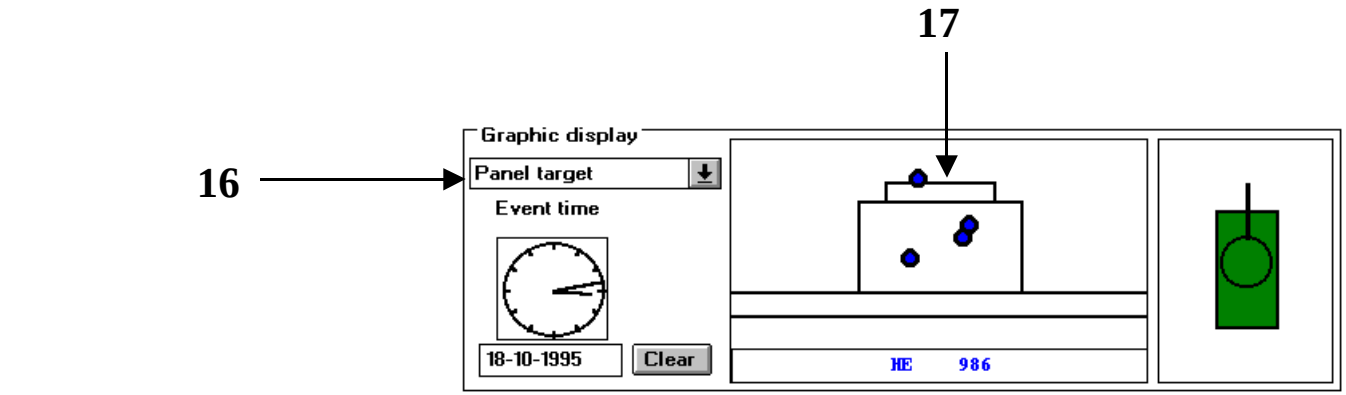
GRAPHIC DISPLAY



Time	Event	Ammo	Range Act [m]	Range Crew [m]	Azim [m]	Elev [m]	Id	Aspect	Effect
15:13:52	Fire	HE 59	995	1400	0.4	0.0	101		Hit
15:13:52	Fire	HE 58	995	1400	-0.4	1.2	101		Hit
15:13:52	Fire	HE 56	986	1400	0.5	0.3	101		Hit
15:13:53	Fire	HE 56	985	1400	-0.8	-0.5	101		Hit
15:13:53	Fire	HE 56	978	1400	-0.5	-0.4	101		Hit
15:13:53	Fire	HE 56	975	1400	0.1	-0.1	101		Hit
15:13:55	Fire	HE 52	957	1400	-1.0	-0.5	101		Hit
15:13:55	Fire	HE 52	955	1400	-1.0	-1.4	101		Hit

15

PANEL GUNNERY RESULT PRESENTATION



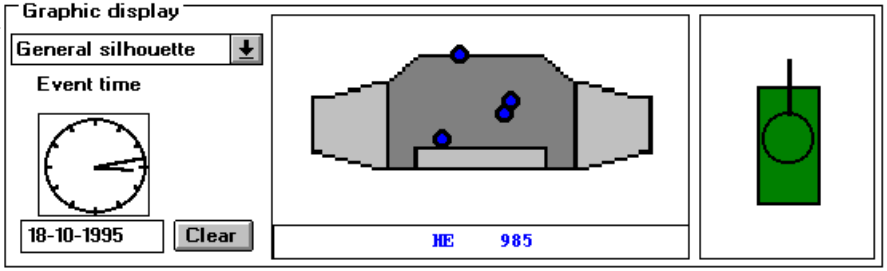
Time	Event	Ammo	Range Act [m]	Range Crew [m]	Azim [m]	Elev [m]	Id	Aspect	Effect
15:13:51	Fire	HE 59	996	1400	-0.6	-0.4	101		Hit
15:13:52	Fire	HE 59	995	1400	0.4	0.0	101		Hit
15:13:52	Fire	HE 58	995	1400	-0.4	1.2	101		Hit
15:13:52	Fire	HE 56	986	1400	0.5	0.3	101		Hit
15:13:53	Fire	HE 56	985	1400	-0.8	-0.5	101		Hit
15:13:53	Fire	HE 56	978	1400	-0.5	-0.4	101		Hit
15:13:53	Fire	HE 56	975	1400	0.1	-0.1	101		Hit
15:13:55	Fire	HE 52	957	1400	-1.0	-0.5	101		Hit

PANEL TARGET SILHOUETTES

Ammunition	Silhouette
105/120 mm SABOT	T80 front
105/120 mm HEAT	T80 front
TOW/TOW2	T80 front
25 mm AP	BMP front
25 mm HE	BMP front with ground plane
7.62	Troop target (kneeling soldier)

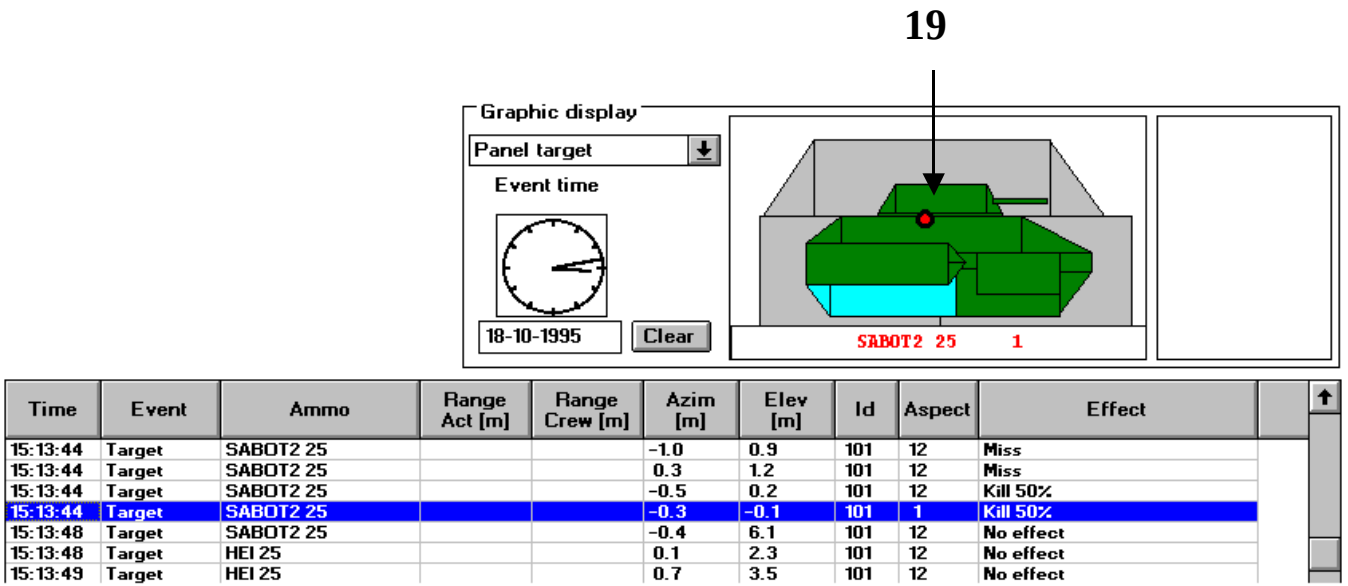
COMBAT MODE RESULT PRESENTATION

18 →



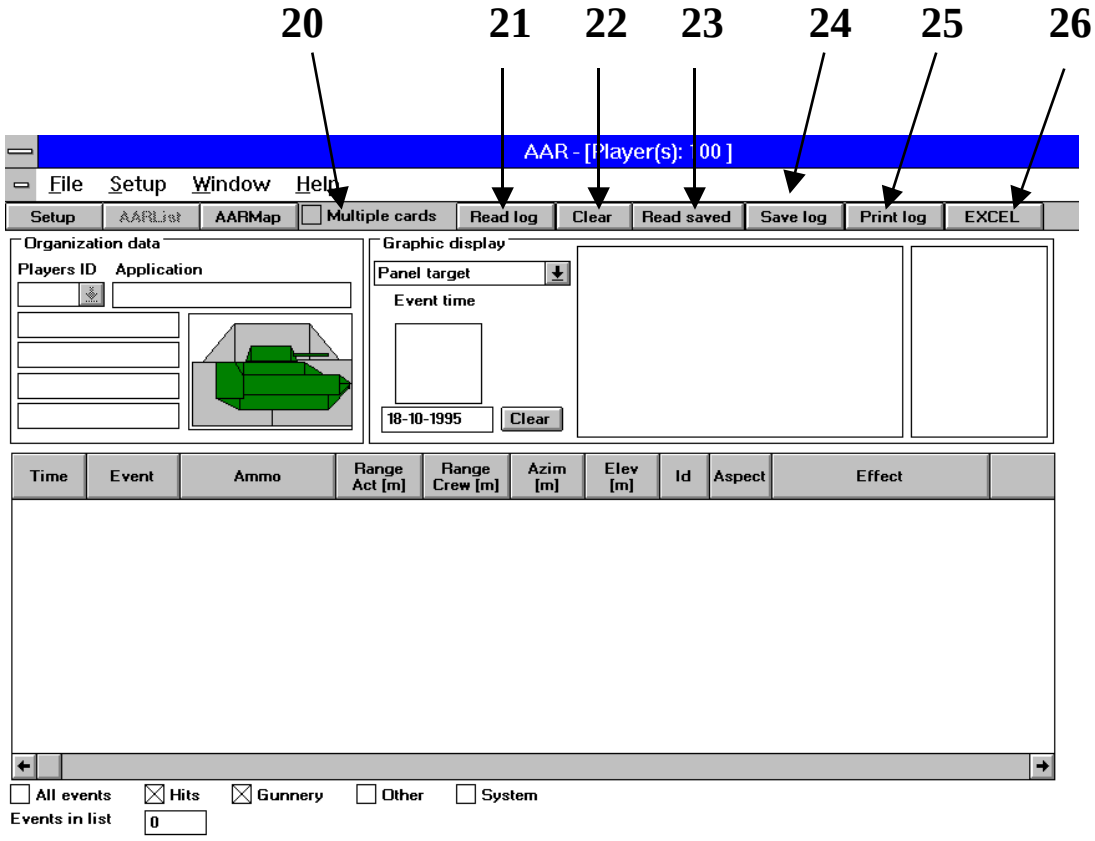
Time	Event	Ammo	Range Act [m]	Range Crew [m]	Azim [m]	Elev [m]	Id	Aspect	Effect
15:13:52	Fire	HE 59	995	1400	0.4	0.0	101		Hit
15:13:52	Fire	HE 58	995	1400	-0.4	1.2	101		Hit
15:13:52	Fire	HE 56	986	1400	0.5	0.3	101		Hit
15:13:53	Fire	HE 56	985	1400	-0.8	-0.5	101		Hit
15:13:53	Fire	HE 56	978	1400	-0.5	-0.4	101		Hit
15:13:53	Fire	HE 56	975	1400	0.1	-0.1	101		Hit
15:13:55	Fire	HE 52	957	1400	-1.0	-0.5	101		Hit

TARGET RESULT PRESENTATION

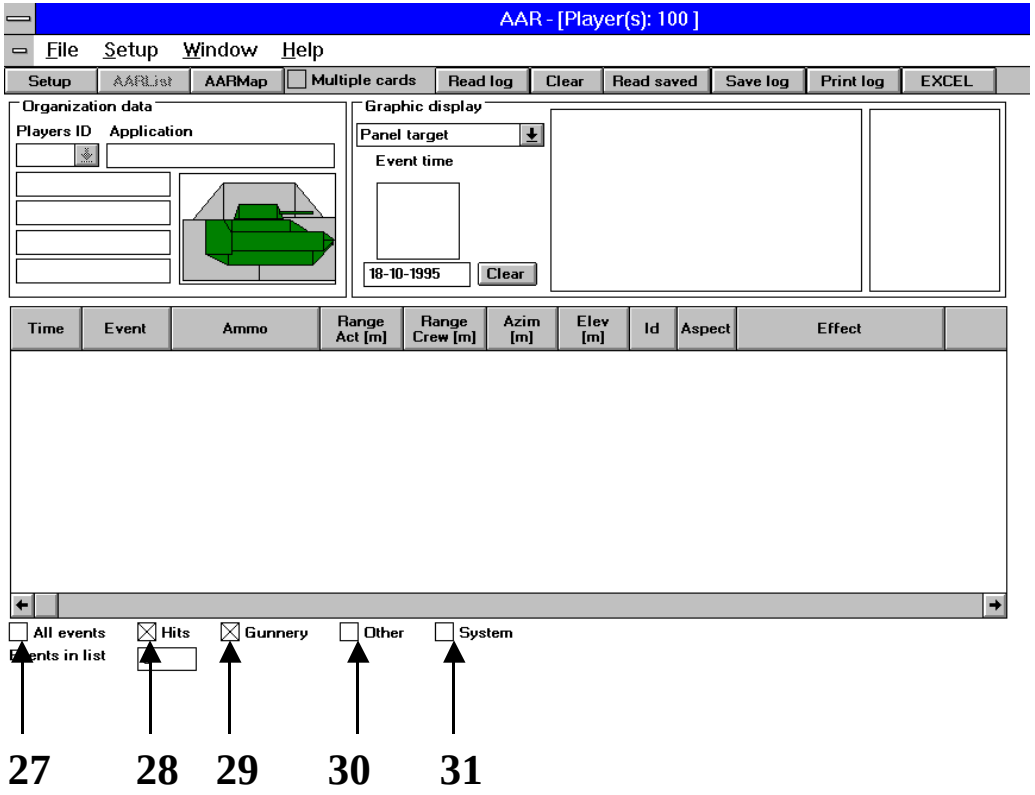


Time	Event	Ammo	Range Act [m]	Range Crew [m]	Azim [m]	Elev [m]	Id	Aspect	Effect
15:13:44	Target	SABOT2 25			-1.0	0.9	101	12	Miss
15:13:44	Target	SABOT2 25			0.3	1.2	101	12	Miss
15:13:44	Target	SABOT2 25			-0.5	0.2	101	12	Kill 50%
15:13:44	Target	SABOT2 25			-0.3	-0.1	101	1	Kill 50%
15:13:48	Target	SABOT2 25			-0.4	6.1	101	12	No effect
15:13:48	Target	HEI 25			0.1	2.3	101	12	No effect
15:13:49	Target	HEI 25			0.7	3.5	101	12	No effect

AAR LIST COMMAND BUTTONS



LIST CONTROL CHECKBOXES



HITS CHECKBOX

These events are displayed when only HITS checkbox is selected:

- **Impact of rounds fired by TWGSS-/PGS-equipped firing systems**
- **Impact of rounds fired by MILES-equipped firing systems**
- **Control gun activities**
- **Autoactivation of target system events (panel gunnery only)**
- **Tamper indications (combat mode only)**

GUNNERY CHECKBOX

These events are displayed when only GUNNERY checkbox is selected:

- **Firing events**
- **Reload of turret and hull by controller**
- **Upload of ammunition by crew**
- **Tracking training events**

OTHER CHECKBOX

These events are displayed when only OTHER checkbox is selected:

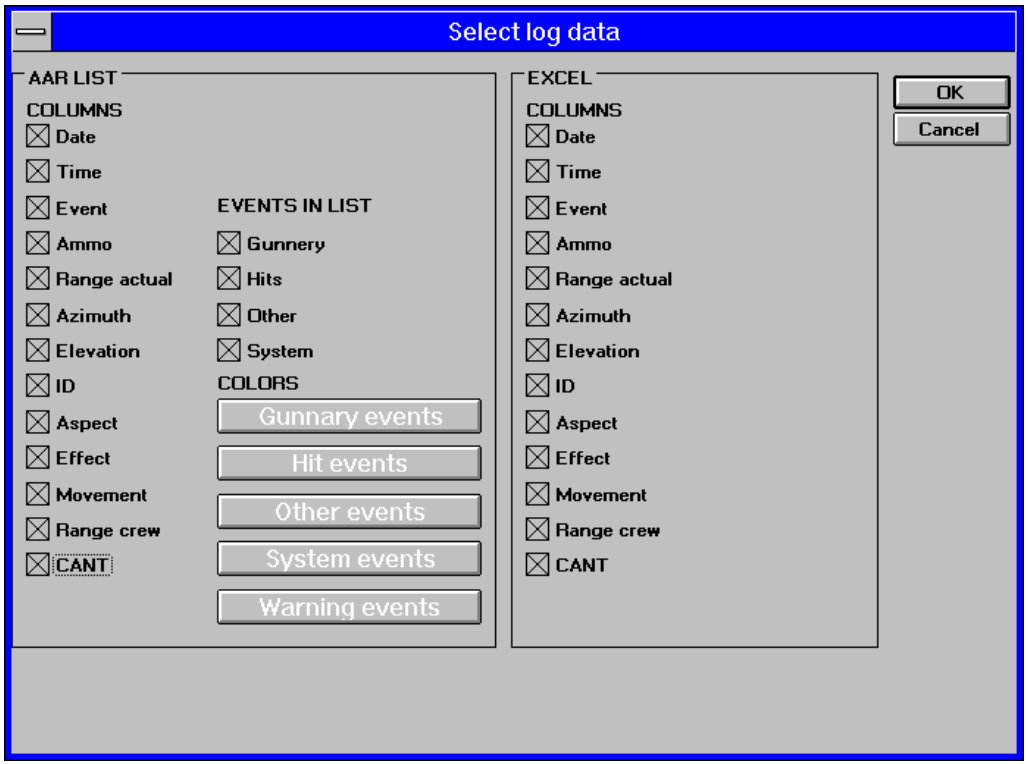
- **LRF**
- **Laser alignment**
- **Power ON**

SYSTEM CHECKBOX

These events are displayed when only SYSTEM checkbox is selected:

- **ERROR messages**
- **NO CONNECTION messages**
- **ERROR CLEARED messages**
- **BIT messages**

LOG DATA MENU



EXAMPLES OF EVENTS

- **FIRE**
- **TARGET**
- **CGUN**
- **UPLOAD**
- **RELOAD**
- **LRF**
- **BIT**

105 MM AMMUNITION

- **SABOT 105 1** **0 - 1000 m**
- **SABOT 105 2** **1000 - 2000 m**
- **SABOT 105 3** **2000 - 3000 m**
- **SABOT 105 4** **3000 - 4000 m**
- **HEAT** **0 - 4000 m**

120 MM AMMUNITION

- **SABOT 120 1** **0 - 1000 m**
- **SABOT 120 2** **1000 - 2000 m**
- **SABOT 120 3** **2000 - 3000 m**
- **SABOT 120 4** **3000 - 4000 m**
- **HEAT** **0 - 4000 m**

<u>Note</u>. 120 mm ammunition is programmed for higher kill probability than 105 mm ammunition.

25 MM AMMUNITION

- **SABOT 25 1** **0 - 1000 m**
- **SABOT 25 2** **1000 - 1700 m**
- **HE** **0 - 3000 m**

COAX AMMUNITION

- **7.62 0- 900 m**

TOW MISSILE

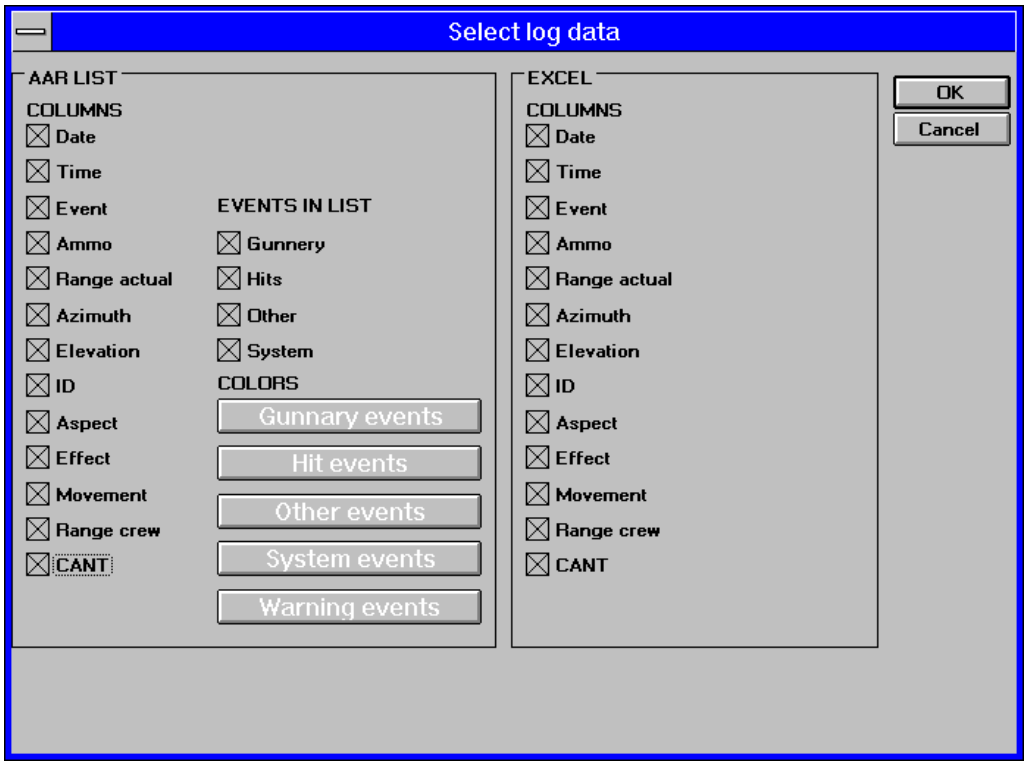
- **TOW BASIC** **0 - 3000 m**
- **TOW 2** **0 - 3750 m**

MILES EVENTS PRESENTED

- **All ammunition defined within the MILES family of simulators are registered by TWGSS/PGS and presented during the AAR.**

<u>Note</u>. See student handout for detailed information.

LOG DATA MENU

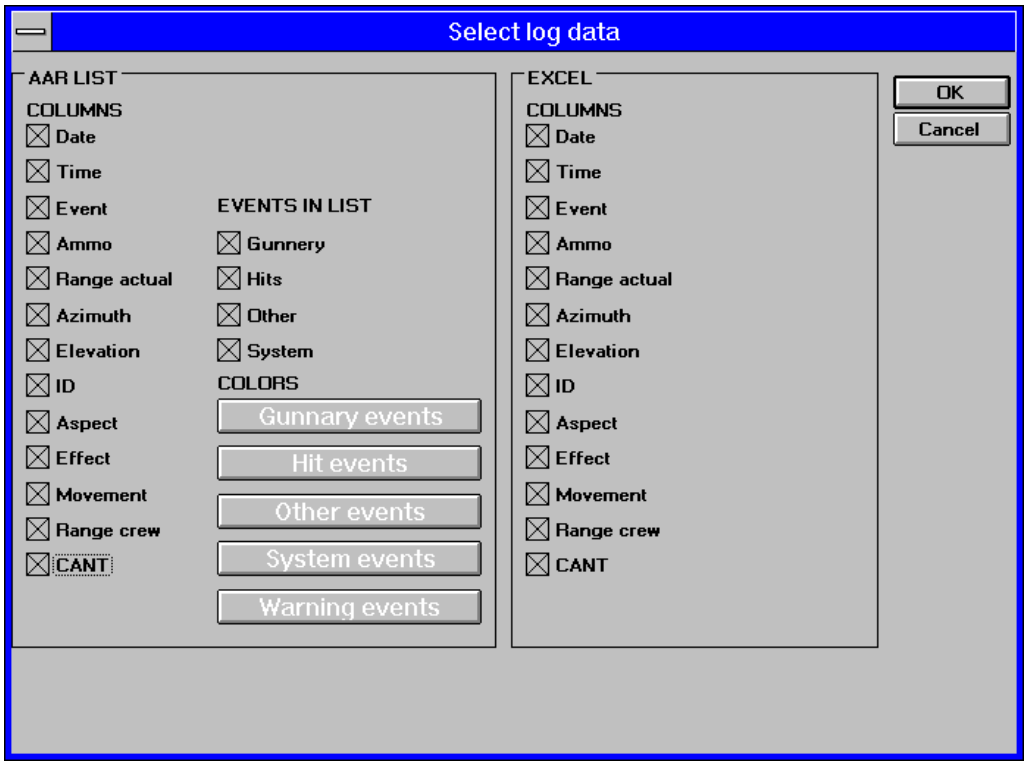


AZIMUTH/ELEVATION RESULT

- **Measurement presented in meters with 0.1 m resolution**
- **Azimuth result**
  - **R = + = Right**
  - **L = - = Left**
- **Elevation result**
  - **U = + = Up**
  - **D = - = Down**

<u>Note</u>. 0.0 , 0.0 is the defined center of mass of the target.

LOG DATA MENU



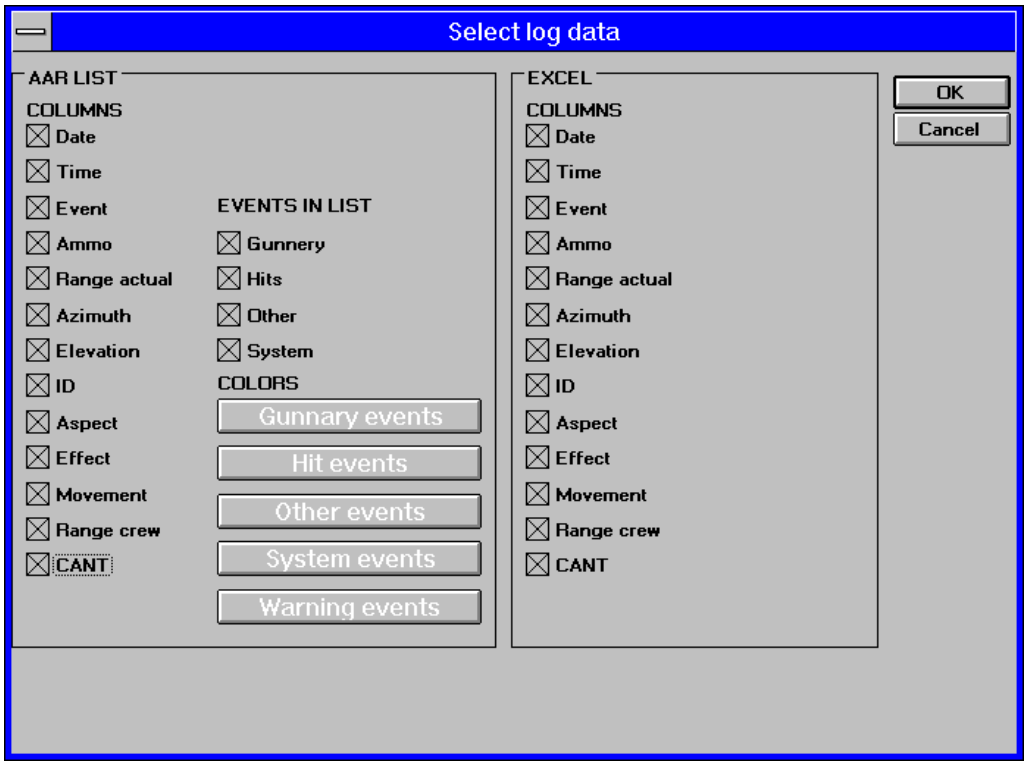
FIRE RESULTS

- **HIT**
- **GROUND HIT**
- **MAX RANGE**
- **MISSILE STALLED**
- **MISSILE ABORTED**

TARGET RESULTS

- **HIT**
- **MOBILITY KILL**
- **WEAPON KILL**
- **KILL**
- **MISS**

LOG DATA MENU



AAR PREPARATIONS

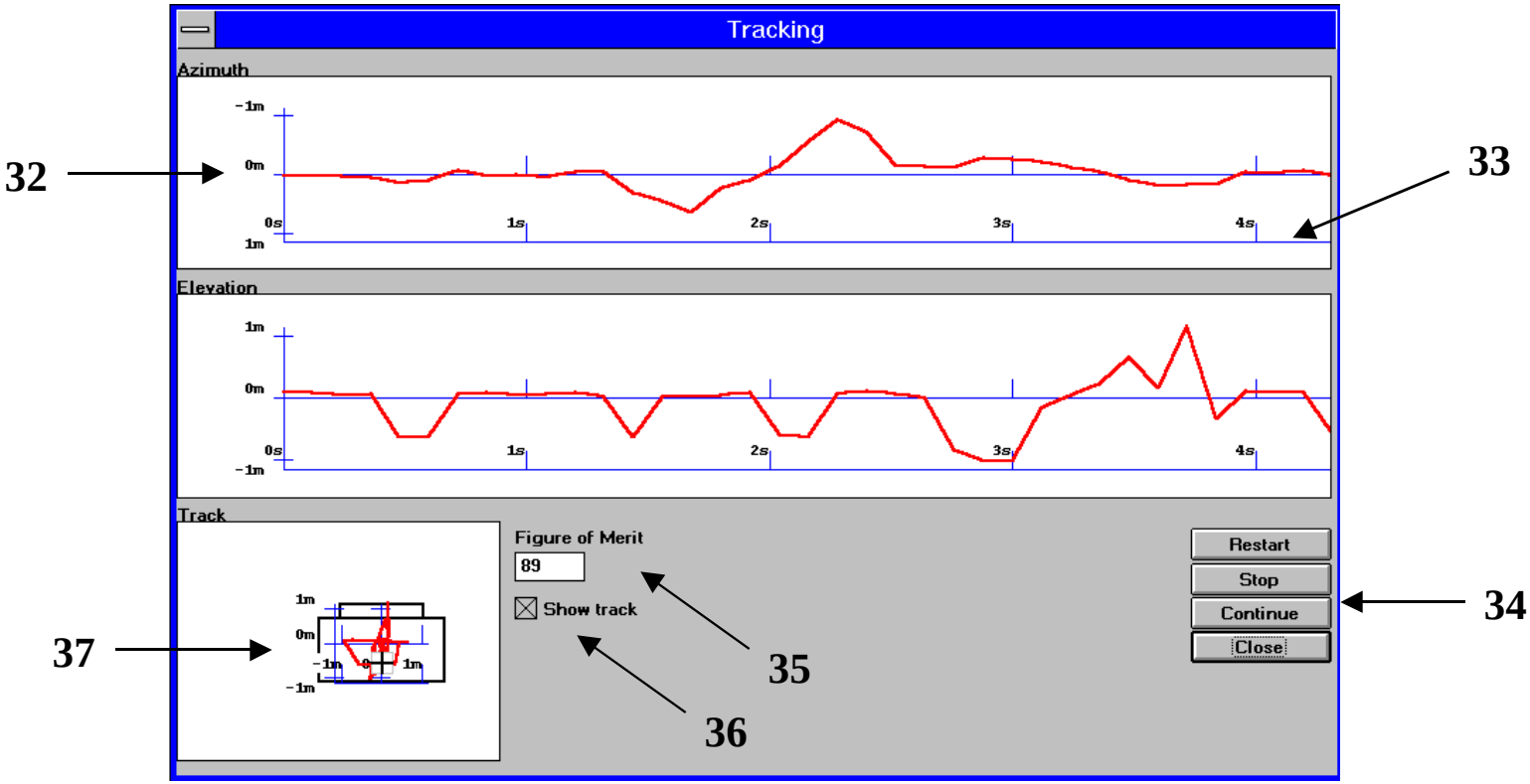
- **Select columns required for AAR.**
- **Select events to be displayed.**
- **Select data to be transferred to EXCEL.**
- **Adjust color of events for better visibility.**

TARGET TRACKING

Time	Event	Ammo	Range Act [m]	Range Crew [m]	Azim [m]	Elev [m]	Id	Aspect	
	New date								Date: 15-02
00:00:00	New mode								Panel Gunn
13:00:12	Target								Autoactiva
13:02:23	Target								Autoactiva
13:03:43	Tracking								
13:03:52	Fire	AP 17	646	0	0.4	-1.6	1		Ground hit
13:05:28	Tracking								
13:05:37	Fire	AP 16	646	0	0.1	-0.5	1		Hit
13:06:27	Tracking								
13:06:32	Fire	AP 15	646	0	1.8	0.1	1		Ground hit
13:07:25	Tracking								
13:07:31	Fire	AP 14	646	0	0.2	-1.8	1		Ground hit

Double click on Tracking

TARGET TRACKING MENU



SUMMARY

- **AAR List controls and indicators**
- **Set up of AAR List screen**
- **Preparation for AAR**
- **Downloading and storage of AAR data**
- **Downloading of AAR data to EXCEL**
- **AAR for tracking training exercise**

CLOSING STATEMENT

- **This block of instruction has prepared you to properly use the AAR List portion of the AAR software.**